

02-1147.SeqListing.CRF  
SEQUENCE LISTING

<110> Tryggvason, Karl  
Salo, Sirpa

<120> Use of antibodies to the gamma 2 chain of laminin 5 to inhibit tumor growth and metastasis

<130> 02-1147-US

<150> 60/422,009

<151> 2002-10-29

<150> US 09/756,071

<151> 2001-01-08

<160> 10

<170> PatentIn version 3.1

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 485 490 495  
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Asn Gly Phe Arg Cys Leu Asn Cys Asn Asp Asn Thr Asp Gly Ile His  
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Asp	Asn	Ser	Gly	Arg	Cys	Ser	Cys	Lys	Pro	Gly	Val	Thr	Gly	Ala	Arg	
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Arg Pro Val Ser Gly Ala Pro Ala Pro Trp Val Glu Gln Cys Ile Cys	
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Pro Val Gly Tyr Lys Gly Gln Phe Cys Gln Asp Cys Ala Ser Gly Tyr	
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Cys Asn Asn Cys Pro Pro Gly Val Thr Gly Ala Arg Cys Glu Leu Cys	
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Asn Gly Phe Arg Cys Leu Asn Cys Asn Asp Asn Thr Asp Gly Ile His
50 55 60

Cys Glu Lys Cys Lys Asn Gly Phe Tyr Arg His Arg Glu Arg Asp Arg
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65		70		75		80
Cys	Leu	Pro	Cys	Asn 85	Cys	Asn
				Ser	Lys	Gly 90
					Ser	Leu
					Ser	Ala
						Arg 95
Asp	Asn	Ser	Gly 100	Arg	Cys	Ser
					Cys	Lys 105
					Pro	Gly
					Val	Thr
						Gly 110
						Ala
						Arg
Cys	Asp	Arg 115	Cys	Leu	Pro	Gly
						Phe 120
						His
						Met
						Leu
						Thr
						Asp 125
						Ala
						Gly
						Cys
Thr	Gln 130	Asp	Gln	Arg	Leu	Leu 135
						Asp
						Ser
						Lys
						Cys
						Asp 140
						Cys
						Asp
						Pro
						Ala
Gly 145	Ile	Ala	Gly	Pro	Cys 150	Asp
						Ala
						Gly
						Arg
						Cys 155
						Val
						Cys
						Lys
						Pro
						Ala 160
Val	Thr	Gly	Glu	Arg 165	Cys	Asp
						Arg
						Cys
						Arg 170
						Ser
						Gly
						Tyr
						Tyr
						Asn 175
						Leu
Asp	Gly	Gly	Asn 180	Pro	Glu	Gly
						Cys
						Thr 185
						Gln
						Cys
						Phe
						Cys
						Tyr 190
						Gly
						His
Ser	Ala	Ser 195	Cys	Arg	Ser	Ser
						Ala 200
						Glu
						Tyr
						Ser
						Val
						His 205
						Lys
						Ile
						Thr
Ser	Thr 210	Phe	His	Gln	Asp	Val 215
						Asp
						Gly
						Trp
						Lys
						Ala 220
						Val
						Gln
						Arg
						Asp
						Val
						Phe
						240
Gly 225	Ser	Pro	Ala	Lys	Leu 230	Gln
						Trp
						Ser
						Gln
						Arg 235
						His
						Gln
						Asp
						Val
						Phe
						240
Ser	Ser	Ala	Gln	Arg 245	Leu	Asp
						Pro
						Val
						Tyr 250
						Phe
						Val
						Ala
						Pro
						Ala 255
						Lys
Phe	Leu	Gly	Asn 260	Gln	Gln	Val
						Ser
						Tyr 265
						Gly
						Gln
						Ser
						Leu
						Ser 270
						Phe
						Asp
Tyr	Arg	Val 275	Asp	Arg	Gly	Gly
						Arg 280
						His
						Pro
						Ser
						Ala
						His 285
						Asp
						Val
						Ile
Leu	Glu 290	Gly	Ala	Gly	Leu	Arg 295
						Ile
						Thr
						Ala
						Pro
						Leu 300
						Met
						Pro
						Leu
						Gly
Lys 305	Thr	Leu	Pro	Cys	Gly 310	Leu
						Thr
						Lys
						Thr
						Tyr 315
						Thr
						Phe
						Arg
						Leu
						Asn 320

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Glu His Pro Ser Asn 325 Asn Trp Ser Pro Gln 330 Leu Ser Tyr Phe Glu 335 Tyr  
 Arg Arg Leu 340 Leu Arg Asn Leu Thr Ala 345 Leu Arg Ile Arg Ala 350 Thr Tyr  
 Gly Glu 355 Tyr Ser Thr Gly Tyr Ile 360 Asp Asn Val Thr Leu 365 Ile Ser Ala  
 Arg Pro 370 Val Ser Gly Ala Pro 375 Ala Pro Trp Val Glu 380 Gln Cys Ile Cys  
 Pro 385 Val Gly Tyr Lys Gly 390 Gln Phe Cys Gln Asp 395 Cys Ala Ser Gly Tyr 400  
 Lys Arg Asp Ser Ala 405 Arg Leu Gly Pro Phe 410 Gly Thr Cys Ile Pro 415 Cys  
 Asn Cys Gln Gly 420 Gly Gly Ala Cys Asp 425 Pro Asp Thr Gly Asp 430 Cys Tyr  
 Ser Gly Asp 435 Glu Asn Pro Asp Ile 440 Glu Cys Ala Asp Cys 445 Pro Ile Gly  
 Phe Tyr 450 Asn Asp Pro His Asp 455 Pro Arg Ser Cys Lys 460 Pro Cys Pro Cys  
 His 465 Asn Gly Phe Ser Cys 470 Ser Val Ile Pro Glu 475 Thr Glu Glu Val Val 480  
 Cys Asn Asn Cys Pro 485 Pro Gly Val Thr Gly 490 Ala Arg Cys Glu Leu 495 Cys  
 Ala Asp Gly Tyr 500 Phe Gly Asp Pro Phe 505 Gly Glu His Gly Pro 510 Val Arg  
 Pro Cys Gln 515 Pro Cys Gln Cys Asn 520 Ser Asn Val Asp Pro 525 Ser Ala Ser  
 Gly Asn 530 Cys Asp Arg Leu Thr 535 Gly Arg Cys Leu Lys 540 Cys Ile His Asn  
 Thr 545 Ala Gly Ile Tyr Cys 550 Asp Gln Cys Lys Ala 555 Gly Tyr Phe Gly Asp 560  
 Pro Leu Ala Pro Asn 565 Pro Ala Asp Lys Cys 570 Arg Ala Cys Asn Cys 575 Asn

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Pro Met Gly Ser Glu Pro Val Gly Cys Arg Ser Asp Gly Thr Cys Val  
580 585 590

Cys Lys Pro Gly Phe Gly Gly Pro Asn Cys Glu His Gly Ala Phe Ser  
595 600 605

Cys Pro Ala Cys Tyr Asn Gln Val Lys Ile Gln Met Asp Gln Phe Met  
610 615 620

Gln Gln Leu Gln Arg Met Glu Ala Leu Ile Ser Lys Ala Gln Gly Gly  
625 630 635 640

Asp Gly Val Val Pro Asp Thr Glu Leu Glu Gly Arg Met Gln Gln Ala  
645 650 655

Glu Gln Ala Leu Gln Asp Ile Leu Arg Asp Ala Gln Ile Ser Glu Gly  
660 665 670

Ala Ser Arg Ser Leu Gly Leu Gln Leu Ala Lys Val Arg Ser Gln Glu  
675 680 685

Asn Ser Tyr Gln Ser Arg Leu Asp Asp Leu Lys Met Thr Val Glu Arg  
690 695 700

Val Arg Ala Leu Gly Ser Gln Tyr Gln Asn Arg Val Arg Asp Thr His  
705 710 715 720

Arg Leu Ile Thr Gln Met Gln Leu Ser Leu Ala Glu Ser Glu Ala Ser  
725 730 735

Leu Gly Asn Thr Asn Ile Pro Ala Ser Asp His Tyr Val Gly Pro Asn  
740 745 750

Gly Phe Lys Ser Leu Ala Gln Glu Ala Thr Arg Leu Ala Glu Ser His  
755 760 765

Val Glu Ser Ala Ser Asn Met Glu Gln Leu Thr Arg Glu Thr Glu Asp  
770 775 780

Tyr Ser Lys Gln Ala Leu Ser Leu Val Arg Lys Ala Leu His Glu Gly  
785 790 795 800

Val Gly Ser Gly Ser Gly Ser Pro Asp Gly Ala Val Val Gln Gly Leu  
805 810 815

Val Glu Lys Leu Glu Lys Thr Lys Ser Leu Ala Gln Gln Leu Thr Arg  
820 825 830

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Glu Ala Thr Gln Ala Glu Ile Glu Ala Asp Arg Ser Tyr Gln His Ser  
835 840 845

Leu Arg Leu Leu Asp Ser Val Ser Pro Leu Gln Gly Val Ser Asp Gln  
850 855 860

Ser Phe Gln Val Glu Glu Ala Lys Arg Ile Lys Gln Lys Ala Asp Ser  
865 870 875 880

Leu Ser Ser Leu Val Thr Arg His Met Asp Glu Phe Lys Arg Thr Gln  
885 890 895

Lys Asn Leu Gly Asn Trp Lys Glu Glu Ala Gln Gln Leu Leu Gln Asn  
900 905 910

Gly Lys Ser Gly Arg Glu Lys Ser Asp Gln Leu Leu Ser Arg Ala Asn  
915 920 925

Leu Ala Lys Ser Arg Ala Gln Glu Ala Leu Ser Met Gly Asn Ala Thr  
930 935 940

Phe Tyr Glu Val Glu Ser Ile Leu Lys Asn Leu Arg Glu Phe Asp Leu  
945 950 955 960

Gln Val Asp Asn Arg Lys Ala Glu Ala Glu Glu Ala Met Lys Arg Leu  
965 970 975

Ser Tyr Ile Ser Gln Lys Val Ser Asp Ala Ser Asp Lys Thr Gln Gln  
980 985 990

Ala Glu Arg Ala Leu Gly Ser Ala Ala Ala Asp Ala Gln Arg Ala Lys  
995 1000 1005

Asn Gly Ala Gly Glu Ala Leu Glu Ile Ser Ser Glu Ile Glu Gln  
1010 1015 1020

Glu Ile Gly Ser Leu Asn Leu Glu Ala Asn Val Thr Ala Asp Gly  
1025 1030 1035

Ala Leu Ala Met Glu Lys Gly Leu Ala Ser Leu Lys Ser Glu Met  
1040 1045 1050

Arg Glu Val Glu Gly Glu Leu Glu Arg Lys Glu Leu Glu Phe Asp  
1055 1060 1065

Thr Asn Met Asp Ala Val Gln Met Val Ile Thr Glu Ala Gln Lys

1070

1075

1080

Val Asp Thr Arg Ala Lys Asn Ala Gly Val Thr Ile Gln Asp Thr  
 1085 1090 1095

Leu Asn Thr Leu Asp Gly Leu Leu His Leu Met Gly Met  
 1100 1105 1110

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 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <223> Portion of Domain III of laminin gamma 2

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 gcacctgtat tccttgtaac tgtcaagggg gaggggcctg tgatccagac acaggagatt 120  
 gttattcagg ggatgagaat cctgacattg agtgtgctga ctgcccaatt ggtttctaca 180  
 acgatccgca cgacccccgc agctgcaagc catgtccctg tcataacggg ttcagctgct 240  
 cagtgattcc ggagacggag gaggtggtgt gcaataactg ccctcccggg gtcaccggtg 300  
 cccgctgtga gctctgtgct gatggctact ttggggaccc ctttggtgaa catggcccag 360  
 tgaggccttg tcagccctgt caatgcaaca gcaatgtgga cccagtgcc tctgggaatt 420  
 gtgaccggct gacaggcagg tgtttgaagt gtatccacaa cacagccggc atctactgcg 480  
 accagtgcaa agcaggctac ttcggggacc cattggctcc caaccagca 530

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 <211> 177  
 <212> PRT  
 <213> Homo sapiens

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<400> 6

Gln Phe Cys Gln Asp Cys Ala Ser Gly Tyr Lys Arg Asp Ser Ala Arg  
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Leu Gly Pro Phe Gly Thr Cys Ile Pro Cys Asn Cys Gln Gly Gly Gly  
 20 25 30

Ala Cys Asp Pro Asp Thr Gly Asp Cys Tyr Ser Gly Asp Glu Asn Pro  
 35 40 45

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Asp Ile Glu Cys Ala Asp Cys Pro Ile Gly Phe Tyr Asn Asp Pro His  
50 55 60

Asp Pro Arg Ser Cys Lys Pro Cys Pro Cys His Asn Gly Phe Ser Cys  
65 70 75 80

Ser Val Met Pro Glu Thr Glu Glu Val Val Cys Asn Asn Cys Pro Pro  
85 90 95

Gly Val Thr Gly Ala Arg Cys Glu Leu Cys Ala Asp Gly Tyr Phe Gly  
100 105 110

Asp Pro Phe Gly Glu His Gly Pro Val Arg Pro Cys Gln Pro Cys Gln  
115 120 125

Cys Asn Asn Asn Val Asp Pro Ser Ala Ser Gly Asn Cys Asp Arg Leu  
130 135 140

Thr Gly Arg Cys Leu Lys Cys Ile His Asn Thr Ala Gly Ile Tyr Cys  
145 150 155 160

Asp Gln Cys Lys Ala Gly Tyr Phe Gly Asp Pro Leu Ala Pro Asn Pro  
165 170 175

Ala

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<220>  
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ggggcctgtg atccagacac aggagattgt tattcagggg atgagaatcc tgacattgag 180  
tgtgctgact gcccaattgg tttctacaac gatccgcacg acccccgcag ctgcaagcca 240  
tgtccctgtc ataacgggtt cagctgtca gtgattccgg agacggagga ggtggtgtgc 300  
aataactgcc ctcccggggt caccggtgcc cgctgtgagc tctgtgctga tggctacttt 360  
ggggaccctt ttggtgaaca tggcccagtg aggccttgtc agccctgtca atgcaacagc 420

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aatgtggacc ccagtcgctc tgggaattgt gaccggctga caggcagggtg tttgaagtgt	480
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ttggctccca acccagcaga caagtgtcga gcttgcaact gtaaccccat gggctcagag	600
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 <213> Homo sapiens

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<400> 8

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Ser	Gly	Tyr	Lys	Arg	Asp	Ser	Ala	Arg	Leu	Gly	Pro	Phe	Gly	Thr	Cys
			20					25					30		
Ile	Pro	Cys	Asn	Cys	Gln	Gly	Gly	Gly	Ala	Cys	Asp	Pro	Asp	Thr	Gly
		35				40						45			
Asp	Cys	Tyr	Ser	Gly	Asp	Glu	Asn	Pro	Asp	Ile	Glu	Cys	Ala	Asp	Cys
	50					55					60				
Pro	Ile	Gly	Phe	Tyr	Asn	Asp	Pro	His	Asp	Pro	Arg	Ser	Cys	Lys	Pro
65					70					75					80
Cys	Pro	Cys	His	Asn	Gly	Phe	Ser	Cys	Ser	Val	Met	Pro	Glu	Thr	Glu
			85						90					95	
Glu	Val	Val	Cys	Asn	Asn	Cys	Pro	Pro	Gly	Val	Thr	Gly	Ala	Arg	Cys
			100					105					110		
Glu	Leu	Cys	Ala	Asp	Gly	Tyr	Phe	Gly	Asp	Pro	Phe	Gly	Glu	His	Gly
		115					120					125			
Pro	Val	Arg	Pro	Cys	Gln	Pro	Cys	Gln	Cys	Asn	Asn	Asn	Val	Asp	Pro
	130					135					140				
Ser	Ala	Ser	Gly	Asn	Cys	Asp	Arg	Leu	Thr	Gly	Arg	Cys	Leu	Lys	Cys
145					150					155					160



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Ile His Asn Thr Ala Gly Ile Tyr Cys Asp Gln Cys Lys Ala Gly Tyr  
165 170 175

Phe Gly Asp Pro Leu Ala Pro Asn Pro Ala Asp Lys Cys Arg Ala Cys  
180 185 190

Asn Cys Asn Pro Met Gly Ser Glu Pro Val Gly Cys Arg Ser Asp Gly  
195 200 205

Thr Cys Val Cys Lys Pro Gly Phe Gly Gly Pro Asn Cys Glu His Gly  
210 215 220

Ala Phe Ser  
225

<210> 9  
<211> 9  
<212> PRT  
<213> Homo sapiens

<220>  
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<223> N-terminal portion of domain III of laminin gamma 2.

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<212> PRT  
<213> Homo sapiens

<220>  
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<223> C-terminal portion of domain III of laminin gamma 2.

<400> 10

Asp Lys Cys Arg Ala Cys Asn Cys Asn Pro Met Gly Ser Glu Pro Val  
1 5 10 15

Gly Cys Arg Ser Asp Gly Thr Cys Val Cys Lys Pro Gly Phe Gly Gly  
20 25 30

Pro Asn Cys Glu His Gly Ala Phe Ser  
35 40